

during the interrupt-sensitive time period, transmitting a particular signal from the terminal to the storage device, the particular signal including a posting triggering signal, a posting data record, an identifier generated using the first data word and a second data word of the at least one data word generated by one of the computer and the terminal;

checking, by the storage device, the identifier, using the storage device;

posting, by the storage device, the debit information as a function of the posting data record

generating, by the storage device, a further identifier as a function of the second data word;

transmitting, by the storage device, a confirmation signal and the further identifier to the computer via the terminal, the confirmation signal being provided to indicate that the debit information has been posted, the confirmation signal being transmitted from the terminal to the computer one of during and outside of the interrupt-sensitive time period.

REMARKS

I. INTRODUCTION

Claims 8-17 are currently pending in the present application. Claim 8 has been amended to clarify the subject matter recited therein. No new matter has been added. Applicants kindly request reconsideration of the present application.

II. REJECTION OF CLAIMS 8-17 UNDER 35 U.S.C. § 102(b)

Claims 8-17 were rejected under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 5,485,520 to Chaum et al. ("the Chaum reference"). Respectfully, Applicants traverse.

To reject a claim based on anticipation, an individual reference must disclose each and every element as set forth in the claim. *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631 (Fed. Cir. 1987).

Claim 8 recites, in pertinent part, the following:

8. A method for posting debit information to a mobile intelligent storage device using a terminal, . . . comprising the steps of:

.
before an interrupt-sensitive time period, transmitting a first data word of the at least one data word from the storage device to the terminal, the first data word being generated for the mutual dynamic authenticity test;

.
during the interrupt-sensitive time period, transmitting a particular signal from the terminal to the storage device, the particular signal including a posting triggering signal, a posting data record, an identifier generated using the first data word and a second data word of the at least one data word generated by one of the computer and the terminal;

.
generating, by the storage device, a further identifier as a function of the second data word;

The Chaum reference purportedly concerns an automatic real-time highway toll collection system designed to provide efficient bi-directional toll payment communications utilizing encryption. (Chaum, col. 2, line 65 to col. 3, line 9). In operation, a terminal (IVU) located within a vehicle prepares a "commit" data package during a non-communications stage and then transmits the package to a remote computer (RCS) when the IVU comes within communication range. (Chaum, col. 3, lines 10-24). If the RCS detects a valid "commit" data package, the RCS transmits a "challenge" data package to the IVU, including an amount of a toll to be deducted. (Chaum, col. 3, lines 25-36). If the IVU determines that the "challenge" package is valid, the IVU causes an appropriate toll amount to be debited from an associated storage device (smart card). (Chaum, col. 3, lines 37-42). The IVU then transmits a "payment" data package to the RCS, thereby acknowledging and concluding the transaction.

The IVU is connected to an associated storage device (smart card) that stores account information and account balance. (Chaum, col. 7, lines 47-65). The IVU performs real time processing of the various data packages received from the

RCS and verifies debiting of the electronic smart card.
(Chaum, col. 8, lines 44-54).

However, the Chaum reference does not disclose the details of how the IVU and the smart card communicate with each other. Thus, the Chaum reference is unrevealing with respect to critical features of claim 8, which include steps of communication between a vehicle's terminal and storage device. For example, the Chaum reference does not disclose the following features of claim 8.

1. "before an interrupt-sensitive time period, transmitting a first data word of the at least one data word from the storage device to the terminal . . ."
2. "during the interrupt-sensitive time period, transmitting a particular signal from the terminal to the storage device, the particular signal including a posting triggering signal, a posting data record, an identifier generated using the first data word and a second data word of the at least one data word . . ."
3. "generating, by the storage device, a further identifier as a function of the second data word . . ."

The cited sections of the Chaum reference alleged to anticipate claim 1 describe only the communications between the LVU and the remote computer of a toll plaza. The cited sections simply do not discuss communications between the LVU and the smart card storage device, much less whether these communications include the three features of claim 8 listed above.

For at least the foregoing reasons, it is kindly requested that the rejection of claim 8 be withdrawn. Further, since claims 9-17 ultimately depend from claim 8, it is kindly requested that the rejection of these claims be withdrawn for at least the same reasons.

III. CONCLUSION

It is respectfully submitted that all of the pending claims are in condition for allowance. Passage to issuance is, therefore, respectfully requested.

Respectfully submitted,
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AMENDMENT VERSION WITH MARKINGS SHOWING CHANGES MADE

IN THE CLAIMS:

Please amend the claim 8 as follows:

8. (Amended) A method for posting debit information to a mobile intelligent storage device using a terminal, the terminal being in a wireless, secure communication with a computer, the method comprising the steps of:

performing a mutual dynamic authenticity test between the computer, the terminal and the storage device using at least one data word, the at least one data word constantly changing;

generating, by one of the computer and the terminal, the debit information [using one of the computer and the terminal];

processing, by the storage device, the debit information [using the storage device];

before an interrupt-sensitive time period, transmitting a first data word of the at least one data word from the storage device to the terminal, the first data word being generated for the mutual dynamic authenticity test;

during the interrupt-sensitive time period, transmitting a particular signal from the terminal to the storage device, the particular signal including a posting triggering signal, a posting data record, an identifier generated using the first data word and a second data word of the at least one data word generated by one of the computer and the terminal;

checking, by the storage device, the identifier, using the storage device;

posting, by the storage device, the debit information as a function of the posting data record[, using the storage device];

generating, by the storage device, a further identifier as a function of the second data word[, using the storage device];

[using the storage device,] transmitting, by the storage device, a confirmation signal and the further identifier to

the computer via the terminal, the confirmation signal being provided to indicate that the debit information has been posted, the confirmation signal being transmitted from the terminal to the computer one of during and outside of the interrupt-sensitive time period.